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P. 7

Appl. No.: 10/591,808

Amdt. Dated August 12, 2008

Response to Office Action Mailed March 12, 2008

REMARKS:

Applicant appreciates the time and care the examiner has taken in examining the

application. Applicant requests reconsideration of the objections and the rejections of the claims,

and states the following in support.

On the Drawing Objection. It is respectfully submitted that the features of the invention

are shown in the drawings, and that the 37 CFR §1.83(a) objection should be withdrawn. The

end plane (6) of one of the two rings (1, 2) is shown in FIG. 2, and is described in the written

description at paragraph [0014] as published, U.S. Pat. App. Pub. No. 2007/0194537 A1. It is

noted that the slide-ring gasket comprises two rings (1, 2). The translated specification refers to

a slide-ring gasket, which, in common usage in the U.S. would typically be referred to as a face

seal. The two rings (1, 2), specified as a slide-ring (1) and a counter-ring (2) in the translated

specification are parts that would be typically referred to in common U.S. usage as seal rings.

The claimed gasket comprises two rings (1, 2), each of said rings comprising an end plane (6)

facing the end plane (6) of the other ring. Because the two rings (1, 2) are essentially identical to

each other in all pertinent respects, FIG. 2 shows a sectional view of only the first one (1) of the

two rings (1, 2). FIG. I shows the typical arrangement of two seal rings in a conventional face

seal. The other drawing objections, to the extent they are understood, seem to relate to perceived

lack of end planes (6) in the drawings, which is not the case, due to FIG. 2. It is therefore

submitted that the drawing objections should be withdrawn.

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On the Section 112, Second Paragraph Rejection. As to "end planes" (6), it is noted that the claimed gasket comprises two rings (1, 2), each of said rings comprising an end plane (6) facing the end plane (6) of the other ring. The end plane (6) of one (1) of the rings (1, 2) is shown in FIG. 2 and described in particular at paragraphs [0005] – [0006] and [0014] of the specification. It is submitted that the amendments to the claims obviate this rejection as to "end planes."

As to "X20 Cr13," the definition of the steel type "X20 Cr13" was made according to the DIN standardization system in use in Germany. The claim has been amended to obviate this rejection to specify the DIN classification. It is submitted that the DIN standardization is well known in the art. DIN type X20 Cr13 stainless steel can best be compared to type 420 steel under the AISI classification system typically used in the U.S., as evidenced by the attached exhibit, consisting of excerpts of sample commercial tables showing international steel standardization conversions between AISI and DIN classifications, among others.

The term "RM 800-950 N/m²" contained typographical errors. The amendment corrects these errors, so that the term is expressed as " R_m =800-950 N/mm²". " R_m " is a measurement value of the tensile strength of a material, and is typically known to those skilled in the art.

It is respectfully submitted that the term "annular sealing surfaces" has antecedent basis presented in the last paragraph of claim 1.

Therefore, it is submitted that the amendments address the issues raised by the examiner under Section 112, second paragraph, and it is requested that the rejection be reconsidered and withdrawn.

Section 102(b) Rejection and Section 103(a) Rejection. The rejection is traversed for at least the following reasons. Claim 1 as amended contains the limitations of "...the end planes (6) facing each other are undercut or formed offset in an axial direction respectively in an area following in a radial direction inwardly of the annular part section (5) so that with sliding

sealing, a clearance is formed; and a radial width of annular sealing surfaces of said rings (1, 2) is less than 30% of a radial reach of the end planes (6) facing each other in the slide-ring gasket." FIG. 2 of the cited reference Takeda, JP 58088267, shows a slide-ring gasket of stainless steel having a wear-resistant coating at end planes facing each other, but does not show the specific reduction of the size of the annular sealing surfaces facing each other set forth in the claim. It is pointed out that an embodiment according to FIG. 3 of JP 58088267 is shown to have the same area of sealing surface as in the embodiment according to FIG. 2 of JP 58088267. The embodiment according to FIG. 3 of JP 58088267 is in contradiction to the features set forth in amended claim 1, because a conical portion is provided following the annular sealing surface, instead of an axially recessed portion as provided in claim 1. The features set forth in claim 1 serve the object of detecting impermissible wear at a time at which the transport of dust- and dirt-particles to the inside of the compartments to be sealed can be ruled out with high accuracy. JP 58088267 does not deal at all with the problem of early detection of unacceptable levels of wear, as does the embodiment set forth in amended claim 1 herein, and hence cannot be compared to the present invention.

In the context of the present invention, it is of paramount importance that the radial width of the annular sealing surfaces be substantially reduced in relation to the radial width of the end planes facing each other, in order to cause leakage also with the occurrence of minimal damage, so that the effluence of lubricant becomes visible. With such a reduced radial width of the annular sealing surfaces it is feasible to make visible the effluence of lubricant droplets at an early time after impermissible wear has occurred -- not only after wear of the sealing surfaces has occurred to such an extent that dust and dirt particles can be transported into the inside of the compartment to be sealed. Only with the claimed limitation of the radial width of the annular sealing surfaces being less than 30% of the radial reach of the end planes facing each other, can there be achieved sufficient reduction of the sealing surfaces and, thus, timely determination of impermissible wear.

The same is true with respect to the other cited reference Peickii, US 3,086,782. This reference also lacks disclosure of the claimed combination of features: "...the end planes (6) facing each other are undercut or formed offset in an axial direction respectively in an area following in a radial direction inwardly of the annular part section (5) so that with sliding sealing, a clearance is formed; and a radial width of annular sealing surfaces of said rings (1, 2) is less than 30% of a radial reach of the end planes (6) facing each other in the slide-ring gasket."

Because Takeda fails to disclose the features relied upon by the examiner in making the Section 102(b) rejection, and because Peickii fails to supply the features missing from Takeda in order to render the claimed combination obvious, it is submitted that no prima facie cases supporting the Section 102(b) and Section 103(a) have been made.

<u>Conclusion</u>. Therefore, it is respectfully submitted that the rejections should be reconsidered and withdrawn; that the application is in condition for prompt allowance; and that all of the objections, rejections and requirements raised in the Office action have been met. Early, favorable treatment of this application is requested.

The examiner is encouraged to telephone the undersigned with any questions or comments so that efforts may be made to resolve any remaining issues.

Extension Request and Deposit Account Charge Authorization. The Commissioner is hereby authorized to charge any necessary fees, or credit any overpayment, associated with this communication, including fees for any necessary extension of time under 37 CFR §1.136(a) for filing this communication, which extension is hereby requested, to our Deposit Account No. 50-0305 of Chapman and Cutler LLP.

Respectfully submitted,

Robert J Schneider, Reg. No. 27,383

Date: August 12, 2008 Attorneys for Applicant(s): Robert J. Schneider CHAPMAN AND CUTLER LLP 111 West Monroe Street, Suite 1700 Chicago, Illinois 60603-4080

CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. § 1.8

Attorney Docket Number:

Telephone: 312-845-3919

1717743

App. Serial No.:

10/591,808

Date of Facsimile Transmission:

August 12, 2008

Transmitted to Facsimile No.:

1-571-273-8300

I hereby certify that the attached correspondence, namely: Response to Office Action, was transmitted by facsimile on the date listed above, to the U.S. Patent Office at the facsimile number listed above, under 37 C.F.R. § 1.8.

Signature:

Typed Name of Person Signing this Certificate: Robert J. Schneider

Date of Signature:

August 12, 2008





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INTERNATIONAL	COMPARISON OF	STEEL	CPADES
		31551	TRAILES

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P.O. Box 261 Owings Mills, MD 2:117 USA 6119 Oakleaf Avenue Baffirmore, MD 21215 USA

Maryland Metrics: Technical Data Chart INTERNATIONAL STANDARDS CONVERSION TABLE FOR STAINLESS STEEL

Including Chemical Composition & Mechanical Properties

This date chart is also available for dewnloading as a viewable/printable Acrobat POF file.

U.S.A.	GERMANY	GERMANY	FRANCE	JAPAN	ITALY	SWEDEN	Ü.K.	E.U.	Leady	
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3.0.E	X 12 CrNi 25 20	1.4842	Z 12 CN 25-20	5US 310S	X 5 CrNi 2520	23 61		X 6 CrNi 25 20		10KH23N18

Chemical Composition

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- 1	X3Cr Ni 89	304512	SUS 304L	\$0°C	-	2	0.045	0.03	9.00-13.00	18.00-20.00	
i	XECTNI 1911	306518	SU6 305	0.12		2	U.045	Ø.03	10.80-13.00	17.00-19.00	
į.	X 15 Cr Ni Si 2520	310524	SUS 3108	908	\$	2	0.045	2.03	19.00-22.00		
1	X15 Cr Nr Ma 1810	306316	SUS 316	0.08		2	0.045	9.03	10.00-14.00	16,00-18,00	200300
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•	X8Cr 17	430517	SUS 430	0.12	0.75		90 [.] 0	0.03	9 0	16.00-18.00	
			SUS 434	0.12	_		\$	0.03	0.6	18.00-18.00	0.36 + 36
	X10 Cr 13		SUS 410	0.15	-	-	2 0.0	0.03	9.0	11.50-13.50	67.167.75
	X20 Cr 13	420529	SUS 420 J1	0.16-0.25			8.0	0.03	9.0	12.00-14.00	
	X 40 Cr 13	420345	SUS 420 J2	0.26 - 0.40	-		0.04	50.03	90	12.00-14.00	•

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Mechanical Properties

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Овшаи		N-N6	143:0	14301	14306	14303	14841	14401	14435	14016	14113	14006	14021	70034
USA		AISI	30;	364	304L	8	310S	316	318.	8	2	430	8	£

Phones: (800) 638-1830 or (410) 358-3130 are available Monday-Findsy 8.30 AM to 5.30 FM Eastern bine. Faxes: (800) 872-8329 or (410) 358-3142 & E-mail are available anytime. Yarehouse & showroom hours are Monday-Finday 19 AM to 5.30 FM.

[to: Marykand Metrics frome page | { To: Maryland Metrics Product Gude } { e-mail to Maryland Metrics | Please note that all Trademarks and Trademarks are the property of their respective owners. Copyright (2002, 2002, 2008 maryland metrics -- all Aghts reserved -- ver bother signadeliable.htm

PAGE 15/15 * RCVD AT 8/12/2008 5:14:35 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/15 * DNIS:2738300 * CSID:+1 312 803 5299 * DURATION (mm-ss):12-42